

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1. (Currently Amended) An optical wireless communication system including comprising a transmitter and a receiver, having ~~a first optical transmitting means for transmitting a first optical signal having narrow directivity and a receiver having a first optical receiving means for receiving said first optical signal and converting said first optical signal into an electric signal, wherein~~

said transmitter comprising:

a first optical transmitting unit which transmits a first optical signal having narrow directivity,

said receiver comprising:

a first optical receiving unit which receives said first optical signal and converts said first optical signal into an electric signal;

a light-receiving level detecting means for detecting unit which detects a light-receiving level of said first optical signal received by said first optical receiving means unit; and

~~a second optical transmitting means for transmitting~~
~~unit which transmits~~ a second optical signal which carries
~~information of the~~ light-receiving level information of said
first optical signal obtained by said light-receiving level
detecting means unit and has directivity wider than that ~~the~~
~~narrow directivity~~ of said first optical signal, and
said transmitter further comprising:

a second optical receiving means unit including a
plurality of light-receiving elements, each light-receiving
~~element having light-receiving capability for receiving~~ said
second optical signal at a level corresponding to a
~~difference in direction between the direction of an optical~~
~~axis of said receiver and an optical axis of said~~
transmitter;

~~a drive means for positioning unit which changes the~~
~~direction of the optical axis of said transmitter said first~~
~~optical transmitting means and said second optical receiving~~
means by integrally shifting said first optical transmitting
means unit and said second optical receiving means unit
~~toward the direction of said receiver;~~

~~a rough optical axis adjusting means for executing unit~~
~~which executes~~ a rough optical axis adjustment by
controlling said drive means unit so as to eliminate a

~~difference in substantially equalize the light-receiving level of levels received by said plurality of light-receiving elements of said second optical receiving means to one another; and~~

~~a fine optical axis adjusting means for executing unit which executes a fine optical axis adjustment by controlling said drive means unit based on the information of the light-receiving level information of the first optical signal, which is contained in the second optical signal being received by said second optical receiving means unit, while searching a relatively wide region when the light-receiving level of the first optical signal is relatively small and searching a relatively narrow region when the light-receiving level of the first optical signal is relatively large, after the rough optical axis adjustment by said rough optical axis adjusting means unit is accomplished.~~

2. (Currently Amended) The optical wireless communication system in accordance with claim 1, wherein said plurality of light-receiving elements of said second optical receiving means unit are four photoelectric conversion elements arranged in a matrix pattern consisting of two lines and two rows in horizontal and vertical directions, and

said rough optical axis adjusting means unit executes the rough positioning of the optical axis in a total of eight directions based on the difference in the light-receiving level levels of said four photoelectric conversion elements.

3. (Currently Amended) The optical wireless communication system in accordance with claim 1, wherein said fine optical axis adjusting means unit searches a region wherein said light-receiving level information exceeds a predetermined value and executes the fine optical axis adjustment for the region identified by the search.

Claim 4 (Cancelled).

5. (Currently Amended) The optical wireless communication system in accordance with claim 1, wherein said fine optical axis adjusting means unit estimates a distance to said receiver based on said light-receiving level information, and accomplishes said fine optical axis adjustment.

6. (Currently Amended) The optical wireless communication system in accordance with claim 1, wherein transmitting transmission of said first optical signal by said first optical

transmitting means unit is stopped until at least one of the
light-receiving ~~level~~ levels of said plurality of light-receiving
elements of said second optical receiving means unit exceeds a
predetermined value.

7. (New) The optical wireless communication system in
accordance with claim 1, wherein the fine optical axis adjusting
unit is adapted to execute the fine optical axis adjustment such
that the light-receiving level of the first optical signal is
maximized.

8. (New) The optical wireless communication system in
accordance with claim 1, wherein the fine optical axis adjusting
unit is adapted to execute the fine optical axis adjustment such
that the light-receiving level of the first optical signal
exceeds a communicable level.